



Missouri S&T Magazine, August 1977

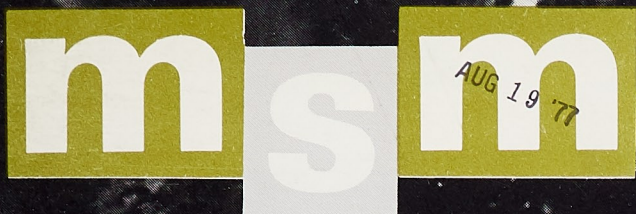
Miner Alumni Association

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Alumnus

August 1977

University of Missouri - Rolla





Alumnus

MSM-UMR Alumni Association
University of Missouri-Rolla
Rolla, Missouri

Volume 51
Number 4
August 1977



On The Cover...

Summer scene on campus. Summer school enrollment totaled 1145. 200 courses were offered for credit and 138 completed degree requirements at the close of the session, July 29.

Issued bi-monthly in the interest of the graduates and former students of the Missouri School of Mines and Metallurgy and the University of Missouri-Rolla. Entered as second class matter October 27, 1926, at Post Office at Rolla, Missouri 65401, under the Act of March 3, 1897.

MSM-UMR Alumni Association

Telephone (314) 341-4171; (314) 341-4172

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Treasurer	Vernon T. Loesing '42	Dept. of Civil Engr. UMR, Rolla, MO 65401	1978

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		Term Expires
Allan H. LaPlante '63	31 Lake Drive, Needham, MA 02192	1977
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Code Numbers

		Term Expires
00-14 H.W. Flood '43	183 Main St., Acton, MA 01720	1977
15-21 J. D. Patterson '61	1660 Ashlawn Dr., Pittsburg, PA 15241	1977
22-33 Bill L. Atchley '57	1266 Crestwood, Morgantown, WV 26505	1979
35-45 Harold Kosten '60	11195 Marlette Drive, Cincinnati, OH 45242	1977
46-59 Eugene C. Fadler '62	116 N. Evangeline, Dearborn Heights, MI 48127	1978
60-62 Allen G. Behring '66	447 S. Euclid, Villa Park, IL 60181	1979
62-62 C. Stuart Ferrell '64	219 Timothy Lane, Carterville, IL 62918	1978
63-65 Matteo A. Coco '66	7115 Aliceton Ave., St. Louis, MO 63123	1978
63-63 Robert W. Klorer '44	7500 Natural Bridge Rd., St. Louis, MO 63121	1977
63-65 Harold A. Krueger '42	Ozark Lead Co., Rural Branch, Sweetwater, MO 63680	1979
63-65 J. R. Patterson '54	P.O. Box 573, Sikeston, MO 63801	1977
63-65 George R. Schillinger '63	7598 John Ave., Oakville, MO 63129	1977
63-65 Clifford C. Tanquary '57	14219 Denver Ave., Grandview, MO 64030	1978
63-65 Bruce E. Tarantola '51	9000 Skycrest Dr., St. Louis, MO 63126	1978
63-65 George D. Tomazi '58	12723 Stoneridge Dr., Florissant, MO 63033	1978
63-65 William E. H. Knight '24	1173 Grand, Carthage, MO 64836	1978
63-65 Edwin J. Werner '49	11015 East 39th, Independence, MO 64052	1979
66-74 Herman Fritschen '51	5249 S. 68th East Place, Tulsa, OK 74145	1979
75-79 Rex Alford '40	5743 Jason, Houston, TX 77035	1979
80-90 Thor Gjelsteen '53 & 96-99	3065 South Ingalls Way, Denver, CO 80227	1977
90-95 E. Murray Schmidt '49	157 Hickey Blvd., S. San Francisco, CA 94080	1979

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		Term Expires
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STAFF

Frank H. Mackaman	Executive Vice-President, MSM-UMR Alumni Association, and Director, Alumni Activities, University of Missouri-Rolla
Barbara Petrovic	Staff Assistant, MSM-UMR Alumni Association and Senior Secretary, Alumni Activities, University of Missouri-Rolla

University of Missouri-Rolla, Harris Hall, UMR, Rolla, MO 65401

Shifting Gears

The MSM-UMR Alumni Association officers and directors have authorized certain changes in the operations of the Association with the hope that the organization will better serve the needs of alumni and the University.

The August issue of the MSM ALUMNUS, in recent years, has carried the Honor Roll of donors to the Annual Alumni Fund and has been mailed to all alumni of record. The Fund Year closed on August 31, and publication was delayed until the list could be compiled. The magazine usually went in the mail in late September and it also carried the announcement of Homecoming. This issue will go to the printer on August 1 and we would like to have it on its way to you by August 15. When it arrives will depend on the postal service. There is no Honor Roll in this issue. This letter prepared for mailing during the last third of the 1977 explains changes in the fund and some reasons for it.

In the interest of the alumnus-donor-taxpayer, the Board authorized the changing of the Annual Alumni Fund year from the present September 1-August 31 period to a calendar year basis. Now that gifts to the Association's Annual Alumni Fund are tax-deductible, it seems clear that we should make the Fund year coincide with the tax year of the majority of the alumni. The change takes place this year. From now on, when you make a gift you will be giving to the current year Annual Fund and will be an active member of the Association for the current year, and you will receive the next six issues of the ALUMNUS following the date of your

gift. But there is a short range problem; most of our gifts have come in during the last third of the year. This followed the announcement of the new Annual Alumni Fund drive which carried as its title the year upcoming, not the current year, and many found this confusing.

Put as simply as we can, here is what we are asking alumni to do:

Please make a gift to the Annual Alumni Fund every twelve months. The Association has its largest expenses in September and January, as the semesters open. Any funds not needed for current commitments will be invested until needed.

According to our records, it has been approximately twelve months since your last gift to the Annual Alumni Fund. You were one of the early donors to the 1977 Fund but your gift was in the tax-calendar year 1976. We hope you can repeat or increase your gift at this time and take advantage of the deduction in the tax-calendar year 1977. We beg your understanding as we go through this transition. Once accomplished, you, as a donor, should be better served; but more importantly, the programs your gift supports will be better served. Thank you.

The Honor Roll for the 1977 Annual Alumni Fund will be published in the December MSM ALUMNUS, and we hope it will contain thousands of names of donors who have made two gifts to the Fund. You can see from the

above that it is absolutely imperative that we have the understanding and cooperation of alumni and friends. The December issue will carry the reports of Homecoming in addition to the Honor Roll, and will be mailed to all alumni of record. We hope that we will be done shifting gears and that most everything will appear rational.

Donor Sets Record

The Annual Fund was recently the recipient of the largest unrestricted gift in the history of the Fund. An alumnus, who has asked that he be given no public recognition, has made gifts to the current Fund totaling more than \$46,000!

The Association Board will determine the ultimate use of the money and will consider the recommendation of the finance committee at the fall meeting held at Homecoming. The bulk of the gift is invested in short-term, interest-bearing instruments awaiting that decision.

The generosity of this alumnus, who has a long history of support of the Association, has given the Association the financial stability that it has sought for the past thirty years.

Engineering Dean Named

James E. Halligan is the new dean of engineering at the University of Missouri-Rolla.

He becomes dean, School of Engineering, and professor of chemical engineering at UMR Sept. 1. He replaces J. Stuart Johnson, who has retired.

UMR Interim Chancellor Jim C. Pogue announced the appointment July 26. "We are indeed fortunate to have a man of Dr. Halligan's ability join our staff," Dr. Pogue said. "We are looking forward to his contributions to the continuing growth and development of engineering education on the Rolla campus."

Halligan, 41, is presently professor and chairman of the Department of Chemical Engineering at Texas Tech University, Lubbock. He is a native of Iowa, having obtained his B.S., M.S. and Ph.D. degrees in chemical engineering from Iowa State University.

After completing his B.S. degree in 1962 Halligan joined the Humble Oil and Refining Co. as a process engineer. He then returned to the classroom and completed his M.S. in 1965 and the doctorate two years later.

His first teaching assignment was as chemical engineering instructor in 1967. A year later he joined the Texas Tech faculty as a assistant professor. He served as a process engineer for the El Paso Products Co. during the summer of 1970. Halligan was promoted to associate professor at Texas Tech in 1972, to assistant chairman in 1974 and to professor and chairman in 1975.

Honors he has received include the Outstanding Engineering Professor designated by Tau Beta Pi in 1972. That same year he also received a \$1000 distinguished teaching award from the University and Standard Oil of Indiana

In 1975 Professor Halligan received the Outstanding Research Award from the Livestock Environmental Sciences Committee.

He is a member of numerous organizations including the American Institute of Chemical Engineering, Sigma Xi, Tau Beta Pi, Phi Lambda Upsilon, Pi Mu Epsilon, The American Society of Engineering Education, the American Chemical Society and various who's who groups.

He has served as a consultant in various organizations and since 1975 has served on the Advisory Commission of the Governor's Energy Advisory Council of Texas. His research has included grants from the Energy Research and Development Administration, National Science Foundation, Environmental Protection Agency, the Texas Governor's Energy Advisory Council, U.S. Coast Guard and various private companies and organizations.

He has written numerous research articles in the areas of energy recovery from solid wastes (such as cattle feedlot manure), liquid membrane mass transfer, solutions for oil-water pollution problems and droplet separation.

Dr. Halligan's name was submitted to Chancellor Pogue by the UMR Search Committee for Dean of Engineering. The committee was chaired by Dr. Robert L. Davis, professor of engineering mechanics. The committee also included Efton L. Park, professor of chemical engineering; Robert C. Peirson, associate professor of electrical engineering; Sotirios G. Grigoropoulos, professor of civil engineering; Alfred L. Crosbie, professor of mechanical engineering; and G. Raymond Cuthbertson, professor of engineering management.



James E. Halligan

Dr. Halligan and his wife, Ann, plan to move to Rolla the latter part of August. The Halligans have three sons: Michael, 19, Patrick 14, and Christopher, 11.

ALUMNI ANNUAL FUND AUGUST 1

1976
\$70,827.20
3425 DONORS
CENTURY CLUB
265 MEMBERS

1977
\$131,087.32
3572 DONORS
CENTURY CLUB
336 MEMBERS

Alumni Alliance

Each UM campus has its own alumni association, but the total University has something more: the Alumni Alliance, which looks beyond campus boundaries to the welfare of the system as a whole and its relationship to the state.

With eight members drawn from each campus alumni group, the alliance is a relatively small body, but its size doesn't limit its scope of effectiveness. Alliance activities reach into nearly every county in Missouri, and a "public resources group," conceived by the alliance, plays an important role in communicating University needs to public officials.

But what of the state's rather ambiguously worded lobbying law? Aren't the alliance folks treading on thin ice? "Not at all," says Ms. Ruth Blake, a member of the alliance and an alumna of both UMC and UMKC. "We're taxpayers making sure our elected representatives understand our point of view. We're not paid or encouraged to work on behalf of the University. We do it because we care about the University."

"We're speaking with one voice," says Mr. Dick Bauer, immediate past-alliance president, "not four different viewpoints. 'We're speaking for the total University rather than grinding an ax for a particular campus.'" Mr. Bauer, who is president of the MSM-UMR Alumni Association, says he also believes that the alliance should shoulder some of the burden borne by the curators and the president.

"Another aspect of our purpose," he says, "is to exchange ideas between

the four individual alumni associations. We trade notes on our successes and problems and try to adopt on one campus what has worked on another."

At first, Ms. Blake says, some alumni feared that the alliance would disturb the campus associations, but all that is in the past. The annual cash contribution from each campus alumni association to the alliance is concrete evidence of campus-alliance unity.

Alliance effectiveness depends on a good information base. "We hold our meetings on the various campuses," Ms. Blake explains, "where we can learn about campus problems. Through tours, we learn about needs in facilities; we meet staff on the campuses. With all this we can understand and support the total University budget. So I'll argue for the Rolla heating plant (in the 1977-78 request for capital improvements), just as I'm sure Dick was for Kansas City's Performing Arts Center."

The two see the alliance as something of a public relations body, a bridge between the University and the rest of the state. Alliance members receive all the campus and central administration publications, and they get student newspapers and the various special publications related to the University's financial needs.

The alliance's public resources alumni receive periodic bulletins explaining legislation under consideration, so that they will be informed when they contact their legislative representatives. "And lots of times," Ms. Blake says, "we carry information back to the University. We hear things and can alert the

University staff to potential problems by saying 'maybe you'd better check into this.'"

Alliance activity in the fall and at certain other times of the year focuses on the legislature. In February the group sponsors a "Legislative Day" for selected lawmakers. Alliance members stress the University's service to Missouri and the importance of continuing strong financial support from the state. "It's also a way of saying 'thank you' to the legislature for what has been done for the University," Mr. Bauer says, "...and what's been done is significant."

Still, the belt-tightening of the last few years concerns the alliance. "Growth is a funny word," Mr. Bauer says. "I want to see the University meet the needs of the state. In the last four or five years we've been on the verge of not meeting needs, ...when you can't meet your fixed costs and there is practically zero increase in faculty salaries..."

Growth in quality is another aspect, says Ms. Blake, and UM alumni were thinking about that as they participated in the selection of a new University president. Having alumni represented in the selection process is another idea that originated with the alliance.

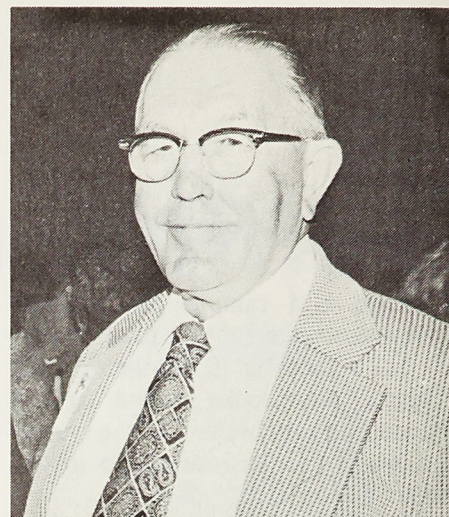
"If the Alumni Alliance didn't exist," says Ms. Blake, "we'd all be on our own campuses, not knowing about the others." But the alliance has helped to foster a sense of community and to promote recognition that UM's future lies down a single path—not four divergent ones.

**Homecoming 1977 — October 14, 15
1927 and before, 1932, 1937, 1942,
1947, 1952, 1957, 1962, 1967, 1972**

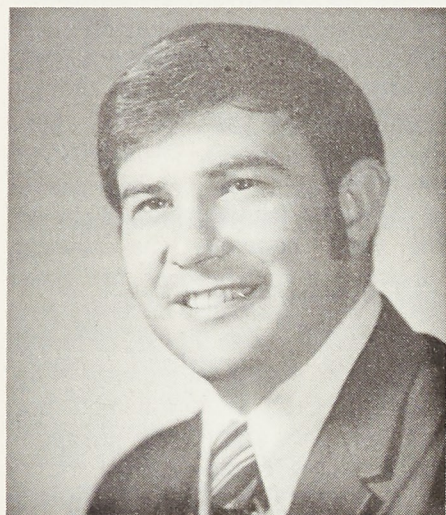
Curators Elect Officers

Rex Z. Williams, alumnus of UMR with degrees granted in 1931 and 1937, was elected president of the Board of Curators at the June meeting. He took office July 1. Williams, chairman of the board of the Rolla State Bank, was appointed a curator of the University of Missouri by former Governor Kit Bond. Williams may well be the first former University faculty member to serve as

curator in modern times. He served in all academic ranks and most administrative positions through assistant dean while a member of the Rolla faculty from 1931 until 1952. Well known to MSM-UMR alumni, he also served on the Board of Directors of the MSM-UMR Alumni Association for many years. Presidential terms are normally one year.



Rex Williams, '31



A. H. LaPlante, '63
Continental Oil Company

Director Selected

Allan H. LaPlante, '63, manager of North American Crude Oil Supply and Trading for Continental Oil Company, has been selected for a Sloan Fellowship at Massachusetts Institute of Technology. He will spend a year in advanced study at M.I.T.'s Alfred P. Sloan School of Management beginning in June.

LaPlante has been manager of Conoco's domestic crude oil trading operations since 1973. He came to Houston as administrative director for supply and transportation in 1972.

He started with Conoco's pipeline operations in 1963, serving much of his career in engineering and management positions with Continental Pipe Line Company at Ponca City, Okla. He was general manager, evaluation and technical development, for the pipeline firm prior to his move to Houston in 1972.

Al is director of the MSM-UMR Alumni Association and is currently living at 31 Lake Drive, Needham MA 02192.

UMR Research Published

The Society of Economic Geologist has devoted one issue of its official bulletin, *Economic Geology*, to the Viburnum Trend. It was published in Vol. 72, issue No. 3.

Articles appearing in the issue include contributions by two UMR geology and geophysics faculty members.

"The Role of the Precambrian Igneous Basement in the Formation of the Stratabound Lead-Zinc-Copper Deposits in Southeast Missouri" is a contribution by Dr. Geza Kisvarsanyi, '66, associate professor of geology.

Before joining the UMR faculty Dr. Kisvarsanyi—working as a geologist for Kennecott Copper Corp.,—participated in the discovery and early development of the "new lead belt."

A second article in the magazine, entitled, "Sequence of the Deposition of the Ore Minerals at the Magmont Mine, Viburnum Trend, Southeast Missouri," was written to record the results of research by Dr. Richard D. Hagni, '62, associate professor of geology, and Thomas C. Trancynger, '71, '76. Trancynger, now with Homestake Mining in Lead, SD, was a UMR graduate student

while working on the project under the direction of Dr. Hagni.

The Viburnum Trend is currently the world's most productive lead mining district. It is also a major producer of zinc, copper, silver and cadmium. This district accounts for approximately 85 per cent of the total U.S. production of lead and 15 per cent of the total world production. Several members of the UMR geology and geophysics department faculty, with research teams consisting of graduate and undergraduate students, have worked and are working on research projects on ore deposits in the area.

PiKA Celebration

The Alpha Kappa Chapter of the Pi Kappa Alpha Fraternity recently celebrated the founding of their National Fraternity.

It was a pleasant affair centered around a banquet at the University Center. AK Chapter President, Ken Lueckenhoff, gave the annual report on current activities. David Gould, plant manager of Caterpillar Tractor Co., and PiKA Alumnus, presented an informative speech on Engineering and its relationship with society. Chapter Advisor, Bob Wolf, followed with the presentation of scholarship and alumni awards. The awards included: The Best overall grade point, Bob Welsh; the best semester grade point average, D. Winter, T. Scanlon, M. Post, R. Fennessey; The most improved grade point average, Russ Dahmer; The Karl R. Morgan athletic scholarship award, Mike Simac; and the Thomas G. Frisbee Memorial Award was given to Ken Lueckenhoff for the most outstanding undergraduate at Alpha Kappa. An award presented for the first time was the Bernie Rippert Outstanding Pledge award which went to Dave Simac. This award was named in honor of the cook who, after six years of service, will be retiring in May of this year. Dave Simac was also a recipient of the Charles R. Hubbard Initiate Badge Award. The Robert V. Wolf Commemorative Award was presented to the speaker, David Gould.

Distinguished AK alumni attending were: Bernard Wagner, James Junge, Ron Reed, Daniel Wall, Robert Fleischman, Dave Barczewski, David Wisch, Phillip Colombatto, David Gould, Dennis Miera, Don Branson, Gary Barth, and Don Askeland. Other PiKA Alumni attending were: Jo Barr—Beta Lambda, Bob Gevecker—Beta Lambda.



UMR graduate students Shara Mount, left, Springfield, and Lee Whitebay, center, Cedar Grove, N.J., check out an aerial photograph of a Missouri mine in a remote sensing lab on campus. Dr. David Barr, right, associate professor of geological engineering, helps them identify data which corresponds to that found on LAND-SAT images from a satellite—such as the one seen on the wall in the background.

Phi Kappa Phi

A total of 54 University of Missouri-Rolla junior, senior and graduate students have been initiated into membership in Phi Kappa Phi, national honor society.

Phi Kappa Phi was founded in 1897. UMR's Phi Kappa Phi group, established in 1920, was the organization's 19th chapter. There are now more than 200 chapters at colleges and universities throughout the country.

This was the first honor society to recognize superior scholarship in all fields of study. Members are selected on the basis of scholarship and character. Only the top 10 per cent of each class is eligible for membership.

Honorary initiate this spring was John P. Govier, professor of petroleum engineering at UMR. Professor Govier's grandfather was one of the founders of the national Phi Kappa Phi.

Conference on Energy

The 4th annual Conference on Energy sponsored by the University of Missouri-Rolla and Missouri's Department of Natural Resources is scheduled Oct. 11-13 on the UMR campus.

This year's conference theme is "Energy Crisis: Where Do We Go From Here?" Approximately 100 technical papers will be presented at the conference to share the results of study and research conducted by engineers, scientists, economists and political scientists from industries and universities all over the country.

Information will be presented on the following topics: Solar energy; solar and wind energy; chemical energy; bioconversion; nuclear energy and power; energy resources; energy conservation; environmental aspects of energy; energy in transportation; consumer energy management; economics, agriculture and energy; industrial energy management; energy conservation—specific industries; energy usage in buildings; economics of energy sitings; energy economics; pricing strategies; energy regulation; economics of energy regulation; political and social implications of energy, and International energy economics.

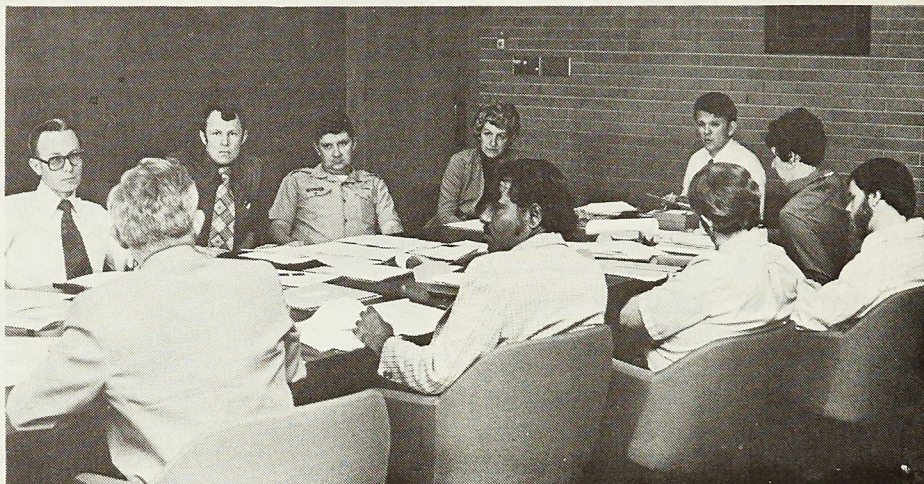
Distinguished speakers scheduled to address the conference include: Richard T. Kennedy, Washington, D. C., member of the U.S. Nuclear Regulatory Commission, Rear Admiral William A. Myers III, Washington D.C., director for energy in the U.S. Department of Defense, and Carolyn Ashford, Jefferson City, director of the Missouri Department of Natural Resources.

As has been the practice at past conferences, informal sessions will be held in the evenings if conferees wish to debate or initiate further discussion of topics or ideas brought up during the day's proceedings.

The conference is an extension activity of several engineering departments and the department of social sciences at UMR and the Department of Natural Resources. Co-sponsors include American Petroleum Institute, Ingersoll-Rand Co., and United States Metals Refining Co. Director is Dr. J.

Derald Morgan, Emerson Electric professor of electrical engineering at UMR.

For further details or to pre-register, write or call: Norma Fleming, Extension Division, University of Missouri-Rolla, Rolla, Mo. 65401 (phone: 314-341-4201).



The Organizing Committee for the 4th annual Conference of Energy, to be held Oct. 11-13 at the University of Missouri-Rolla, discusses the establishment of some 22 technical sessions to be held during the conference.

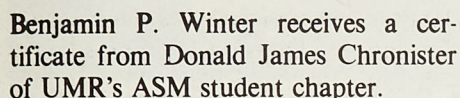
Chi Epsilon Initiates

Nineteen civil engineering students and one honor member have been initiated by Chi Epsilon, nation civil engineering honor fraternity, at the University of Missouri-Rolla.

Members are chosen on the basis of scholarship, character, practicality and sociability.

L. J. Lukrofka of 14608 E. 43rd St., Independence was initiated as chapter honor member. Lukrofka, vice president and general manager of the Missouri Water Co., Independence, received his B.S. in civil engineering at UMR in 1950. He is a native of Rolla.

Special awards were given to several students. Robert G. Leonard of 1038 Highmont, Ferguson, was named outstanding senior. Joseph R. O'Brien Jr. of 12713 Silver Lane, Sugar Creek, a junior in civil engineering, received the Chi Epsilon scholarship award. Pauletta France of Route 1, Bates City, Mark Pearson of 524 Leslie Drive, Independence, and David Sees of 2 Catalina Drive, Kirksville, received awards for the best pledge presentations. Michael Filla of 507 Oriole Lane, Washington, received the prize for the best pledge plaque.



Benjamin Paul Winter, entering freshman at the University of Missouri-Rolla, is the recipient of a four-year renewable National Merit Scholarship sponsored by the American Society for Metals Foundation for Education and Research. ASM/FER has been awarding scholarships to students since 1952 and has participated in the National Merit Scholarship Program for the last 14 years.

class. During his high school career he has been an officer of the ACE club, news editor for the school paper, lettered in tennis and participated in school plays. He has won honors in mathematics, science and Latin and is a multiple winner in the Missouri High School Achievement Bowl (academic competition in 14 disciplines).

Extension News

PROGRAM

DATES

MSM Alumnus/7

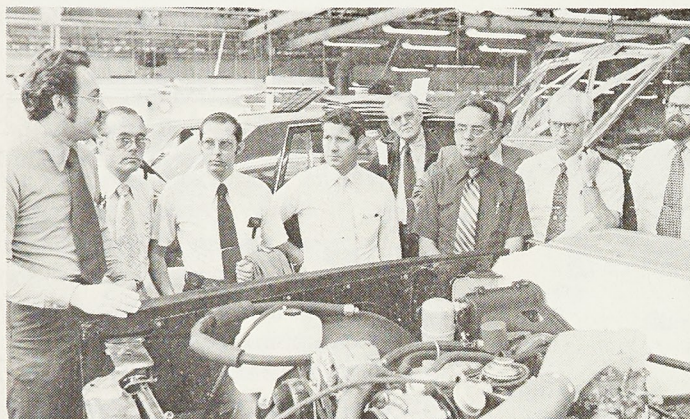
UMR Faculty Visit GM's Buick Division



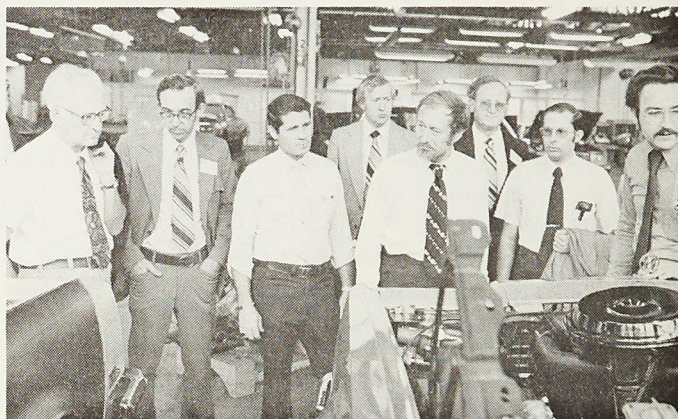
L-R—Don Sparlin, Frank Walters, Stig Friberg, Ron Kosher, Ken Dunipace, Jim Stoffer, Gus Garver, Dick Bachelor (GM), Harry Edwards, '64 (GM).



L-R—Frank Walters, Don Sparlin, GM employee, Jim Stoffer, Gus Garver and Harvey Grice.



L-R—GM employees, Ron Kosher, Frank Walters, Harvey Grice, Chuck Remington hiding Jim Stoffer, Ken Dunipace and Don Sparlin.



L-R—Ken Dunipace, Jim Stoffer, Frank Walters, GM employee Bob Vandyne, '54, Stig Friberg, Gus Garver, Ron Kosher and GM employee.

River Studies Receives Award

In ceremonies at the June 24 meeting, the University of Missouri Board of Curators received a "certificate of appreciation for patriotic civilian service" from the U.S. Department of the Army. The award was made for service by the Institute of River Studies at UMR to the U.S. Army Engineer District, St. Louis. The institute conducted a potamology study (study of the mechanics of a river) of the Mississippi Valley between Alton, Ill., and the Gulf of Mexico in 1975-76.

The citation commends the institute for "...undertaking and accomplishing —on schedule—one of the largest and most comprehensive potamology studies ever implemented by the Lower Mississippi Valley Division. The Institute for River Studies ac-

complished a monumental task of searching for, obtaining, and finally processing into usable form large quantities of raw data that ranged in time from the early 1800's to the present."

Paul R. Munger, '58, '61, professor of civil engineering, is director of the Institute.

Society Nominees

G. Robert Couch, '41, president of the AMAX Specialty Metals Corp. and a vice president of AMAX, has been nominated for TMS president-elect. He is also a nominee for director of AIME. William M. Shepard, '51, '52, is also a nominee for AIME director. Bill is manager of U.S. Exploration for AMAX Exploration, Inc.

St. Pat Statue

At the St. Pat celebration in March 1977, several suggestions were heard that the St. Pat statue be cast in bronze. The statue, a gift of the St. Pat's Board to the University in 1970, is the creation of artist Rudolph Torrini. The figure is eight and one-half feet tall and is covered with a simulated bronze coat. Estimates of the cost of casting range up to \$10,000. Are there any readers who manage foundries where such a casting could be made at little or no cost? It would seem that the work might qualify for favorable tax treatment and, if the technical capabilities are present, the tax considerations could be pursued. Correspondence direct to the alumni office will be routed to those interested in this project.

UNIVERSITY OF MISSOURI-ROLLA
FOOTBALL SCHEDULE
1977-78

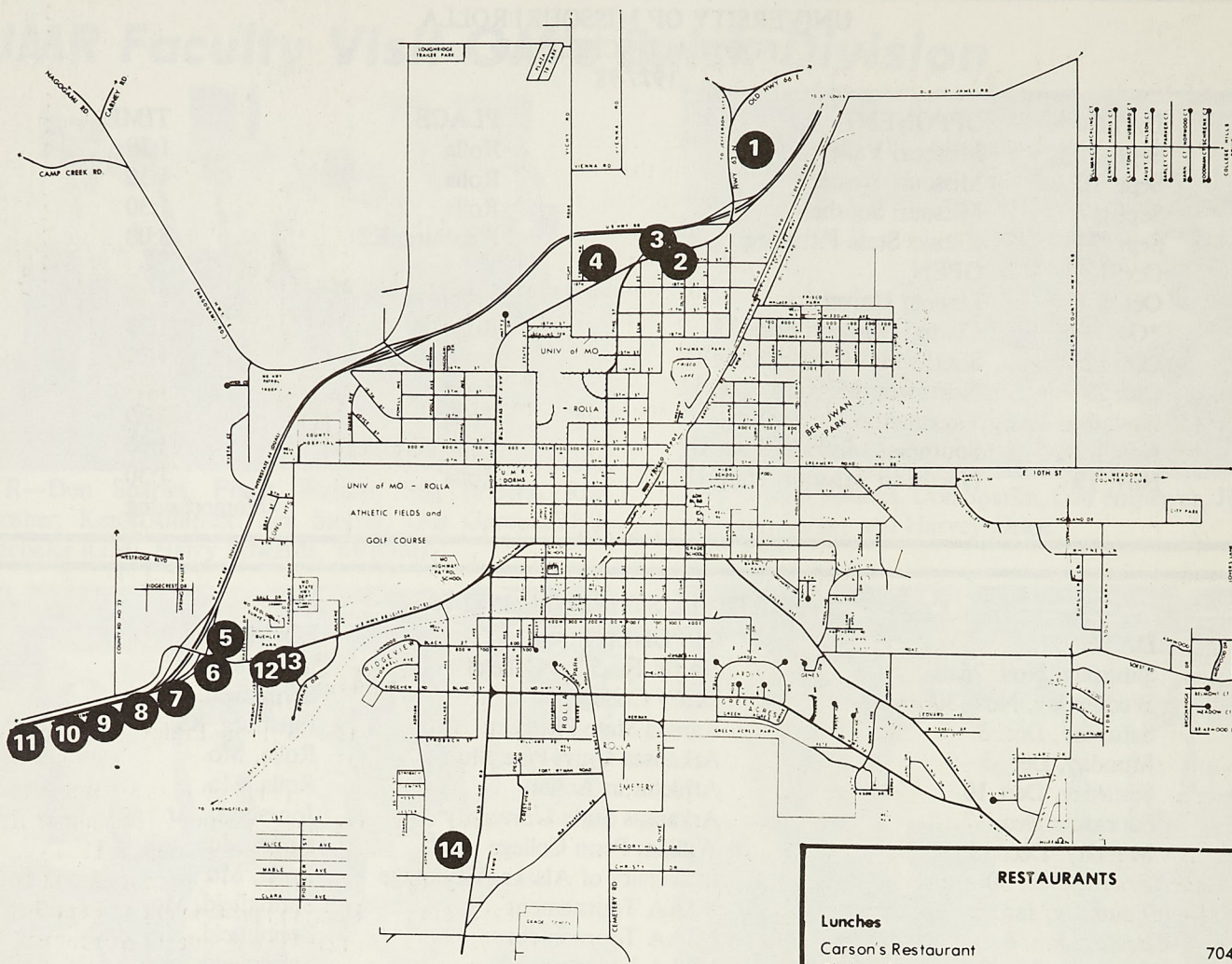
DATE	OPPONENT	PLACE	TIME
Sept. 3	Missouri Valley	Rolla	1:30
Sept. 10	Missouri Western	Rolla	1:30
Sept. 17	Missouri Southern	Rolla	1:30
Sept. 24	Kansas State-Pittsburg	Pittsburg, KS	8:00
Oct. 1	OPEN		
Oct. 8	Lincoln University	Jefferson City	7:30
*Oct. 15	Central Missouri State U.	Rolla	1:30
Oct. 22	Southwest Missouri State U.	Springfield	1:30
Oct. 29	Northwest Missouri State U.	Rolla	1:30
Nov. 5	Washington University	Rolla	1:30
Nov. 12	Southeast Missouri State U.	Cape Girardeau	1:30
Nov. 19	Northeast Missouri State U.	Rolla	1:30

*Homecoming

BASKETBALL SCHEDULE 1977-78

DATE	OPPONENT	LOCATION
Saturday, Nov. 26	Harris Teachers College	Rolla, Mo.
Wednesday, Nov. 30	Drury College	Springfield, Mo.
Saturday, Dec. 3	Kansas State-Pittsburg	Pittsburg, Ks.
Monday, Dec. 5	Arkansas Univ.-Pine Bluff	Rolla, Mo.
Saturday, Dec. 10	Athletes in Action	Rolla, Mo.
Saturday, Dec. 17	Arkansas State University	Jonesboro, Ar.
Monday, Dec. 19	William Penn College	Rolla, Mo.
Friday, Dec. 30	University of Alaska-Anchorage	Rolla, Mo.
Thursday, Jan. 5	MIAA Tournament	Springfield, Mo.
Friday, Jan. 6	MIAA Tournament	Springfield, Mo.
Saturday, Jan. 7	MIAA Tournament	Springfield, Mo.
Monday, Jan. 9	Kentucky Wesleyan	Rolla, Mo.
*Thursday, Jan. 12	Southeast Mo. State Univ.	Rolla, Mo.
*Monday, Jan. 16	Lincoln University	Jefferson City, Mo.
*Saturday, Jan. 21	Northwest Mo. State Univ.	Rolla, Mo.
*Monday, Jan. 23	Northeast Mo. State Univ.	Rolla, Mo.
*Saturday, Jan. 28	Southwest Mo. State Univ.	Springfield, Mo.
*Thursday, Feb. 2	Central Mo. State Univ.	Rolla, Mo.
*Monday, Feb. 6	Southeast Mo. State Univ.	Cape Girardeau, Mo.
Thursday, Feb. 9	Drury College	Rolla, Mo.
*Monday, Feb. 13	Lincoln University	Rolla, Mo.
*Saturday, Feb. 18	Northeast Mo. State Univ.	Kirkville, Mo.
*Monday, Feb. 20	Northwest Mo. State Univ.	Maryville, Mo.
*Saturday, Feb. 25	Central Mo. State Univ.	Warrensburg, Mo.
*Monday, Feb. 27	Southwest Mo. State Univ.	Rolla, Mo.
*MIAA Conference Games		
All Home Games Start At 7:30		

Homecoming 1977—Class Reunions
1927 and before, 1932, 1937, 1942, 1947,
1952, 1957, 1962, 1967, and 1972



OCTOBER 14-15 HOMECOMING

Motel	Single	Double	Phone Service
1. Manor Inn	15.00	18.00 - 20.00	364-1575 ■ ▲
2. Plaza Motel	10.40	12.48	341-2555 ■
3. Nod-A-Way Motel	13.00	14.50 - 16.00	364-7445 ■
4. Little Piney Motel	10.50	14.00 - 16.00	364-2161 ■
5. Howard Johnsons	19.00 - 22.00	22.00 - 29.00	364-7111 ■ ▲
6. Coachlight Inn	13.00 - 18.00	18.00 - 20.00	341-2511 ■
7. Wayfarer Motel	10.40	15.60	364-5454 ■
8. Rolla Ranchero	11.00	12.00 - 14.00	364-4509 ■
9. Zeno's Motel & Steak House*	14.00	16.00 - 18.00	364-1301 ■ ▲
10. Interstate Motel	10.00	14.00 - 16.00	341-2158 ■
11. Holiday Inn	15.50 - 18.50	21.50 - 25.00	364-5200 ■ ▲
12. Towne House Inn	10.40	12.48	
13. Norman Dee Motel	12.00 - 14.00	15.00 - 18.00	364-4156 ■
14. Rustic Motel	10.00	13.00 - 15.00	364-6943 ■

Key ■ Lodging ▲ Restaurant

* Class of '42 Headquarters

ST. JAMES

Finn's Motel, SW Corner of 66 & 68. 265-7200
 Forest City Motor Lodge, I-44 & 68. 265-3256
 Gateway Friendship Inn, NW Cor. 66 & 68. 265-9979

**Reserved for the Class of 1942.

Numbers are Area Code 314. Please make your reservation directly with the hotel-motel of your choice. Almost all Homecoming events will be held on campus, almost all accommodations will require a ride to the campus. Please plan accordingly.

RESTAURANTS

Lunches

Carson's Restaurant 704 Pine
 Chub and Jo's 606 N. Pine
 The Skillet Martin Springs Drive

Sandwiches, Pizzas

A & W Root Beer 1202 N. Bishop
 Alex Pizza Palace 122 W. 8th
 Arctic Arch Drive-In 700 Bishop
 Cedric's Fish 'n Chips City R. 66 West
 Dairy Queen 13th & Bishop
 Kentucky Fried Chicken Jct. 63 & 72
 McDonald's City R. 66 West
 Maid Rite City R. 66 West
 Mr. Swiss Drive-In 606 N. Park
 Pirate's Cove City R. 66 West
 Pizza Hut City R. 66 West
 Pryor's Pizza House Hwy. 63 South
 Sambo's Hwy. 63 North
 Sandwich Gallery 805 N. Rolla St.
 Tim's Pizza Hwy. 63 North
 Wendy's City R. 66 West

Dinner, Steaks

Crystal Room (Manor Inn) Hwy 63 North at I-44
 El-Char-Eve Hwy. 63 South
 G & D Steak House The Forum-E. 10th St.
 Holiday Inn Martin Springs Drive
 Howard Johnson's I-44 & City R. 66 West
 La Posada Mexican Restaurant Hwy 63 South
 Oriental Palace Hwy. 63 North
 Pub Mobile Restaurant & Lounge Hwy. 63 North at I-44
 Sirloin Stockade Martin Springs Drive
 The Gas House The Forum-E. 10th St.
 Zeno's Steak House Martin Springs Drive

Former Chancellor Moves

Merl Baker, former chancellor of the University of Missouri-Rolla and special assistant to the president of the University's state-wide system, has been named coordinator for the Energy Conservation Program at Oak Ridge National Laboratory (ORNL).

The appointment was announced by Murray W. Rosenthal, associate director for advanced energy systems. The Laboratory is one of four major facilities operated by Union Carbide Corporation's Nuclear Division for the Energy Research and Development Administration (ERDA).

In making the announcement, Rosenthal said, "ORNL's research and development program in energy conservation has grown substantially during the past few years and is an important part of our efforts to help solve the nation's energy problem. Our conservation work is performed in six different ORNL divisions, and is now funded by ERDA, the Department of Housing and Urban Development and the Federal Energy Administration. We are pleased to have Merl Baker join us to coordinate this broad program."

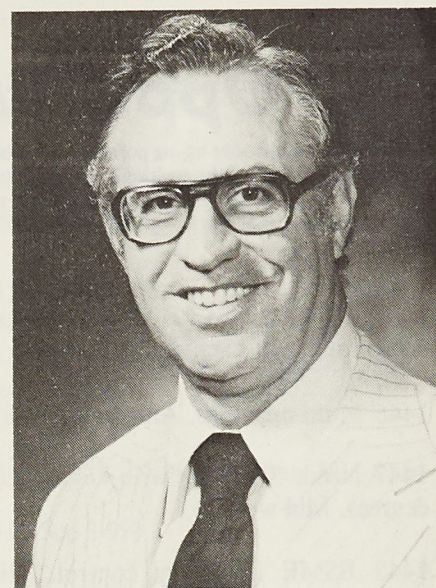
Baker's responsibilities include setting long-range goals for the Laboratory in energy conservation research, planning the program, and reviewing and monitoring the work.

Baker was born in Cadiz, Ky. He received a bachelor's degree in mechanical engineering from the University of Kentucky in 1945, and his doctorate from Purdue University in 1952. For ten years, he was executive director of the Kentucky Research Foundation and professor of mechanical engineering at the University of Kentucky.

Baker joined the Missouri School of Mines and Metallurgy as Dean of Faculties in 1963, and became chancellor in 1964 when the school was transformed into the University of Missouri-Rolla. He had served as special assistant to the president of the University's state-wide system since 1973.

Baker has received numerous honors including the Pi Tau Sigma Gold Medal for outstanding achievements in mechanical engineering, the ASHRAE award for outstanding teaching, and Purdue University's Distinguished Engineering Alumnus award. He has written more than 25 articles and papers for publication in professional journals. His special research area is energy conservation.

Baker and his wife, Emily, will live at 110 Cumberland View, Oak Ridge, beginning in September. They have a daughter, Marilyn Ruth, and a son, Merl W.



Merl Baker

UMR-GEC—St. Louis

UMR has been operating an evening educational program in St. Louis since 1964. The Center began with 89 students studying for the Master of Science Degree in Metallurgical Engineering and Engineering Mechanics. Now, thirteen years later, we offer ten different M.S. Degrees, our student body has exceeded 800 and a total of 822 St. Louis-area engineers have received the M.S. Degree.

M.S. candidates, engineers interested in occasional courses, and persons interested in the new post-baccalaureate degree, the Professional Development Degree, are taking courses from Rolla at the University of Missouri-St. Louis campus. Our full-time staff, plus several from Rolla, provide instruction to persons in refresher courses for the EIT and PE Examinations.

Undergraduate students from Rolla who find themselves in St. Louis for the summer or for one of the regular semesters, also occasionally find it convenient to continue their Rolla education through this St. Louis program.

Persons interested in getting additional details for themselves or for some of their associates are encouraged to call the Graduate Engineering Center at (314) 453-5431, or merely write to the UMR Graduate Engineering Center,

8001 Natural Bridge Road, St. Louis, Missouri 63121.

The fall courses are numerous and will include quite a few courses in computer science as well as in engineering. One of the newer courses will be Solar Heating and Cooling and another is entitled "The Political Environment of the Manager". For a full list of courses, interested persons should contact the Graduate Center and the information will be cheerfully supplied.

NOTICE

The Alumni Association through the Awards program recognizes individuals with honors appropriate to achievement, service and merit. The Awards Committee solicits suggestions of alumni, faculty and friends of the university who should be considered for such honors. Please send names with supporting information to the alumni office. All names previously suggested are maintained in the active file. An Award, presented at Homecoming, is not normally made to any member of a Reunion Class and honorees who are in that category are carried forward to a non-reunion year.

Job Opportunities

For information concerning positions listed below, please contact Mr. Larry Nuss, Director of Career Development & Placement, UMR, Rolla, Missouri 65401, giving File Number of the position, state your degree, discipline and month and year of your graduation.

During times of high activity in the employment market, some positions will be filled before they are published. The Placement Office will make a search for similar positions that may be open if you enclose your resume with your inquiry.

- | | | |
|--|---|---|
| 1445 BS or MS ChE or Cer. Exper design and mfg openings. | 1462 Experienced, domestic and foreign sites, computer types. | 1480 BSCSc. Missouri college admin position. 2 openings. |
| 1446 Multi-openings. Antarctic 77-78 | 1463 BSME, IE. Mid-south. 5 yrs exper, materials handling. | 1481 Project engrs. Northwest. 2-5 exper. ME, EE, Met or ChE. |
| 1447 Needs 3 MBA's with engineering degrees. Mid-west. | 1464 BSIE. Mfgr. Mid-west. Entry level. | 1482 PhD Rock Mech or related. Mid-south. |
| 1448 BSME inventory control. Mid-south. | 1465 Agency listings. | 1483 Project sales and process engrs. Mid-west refractory. Other openings. |
| 1449 Entry level BS Cer. East coast. | 1466 BSEE or ME. Electro-mechanical devices. | 1484 Agency listings. |
| 1450 Systems analyst/progr. IMS-DC required. Mid-west. | 1467 Exper CSc. Near-west mfg. | 1485 BSME for Army career intern EIT program. |
| 1451 MS, PhD ME. R&D engr with 2-4 exper. | 1468 Agency listings. | 1486 BSCE for construction and mgt. Florida. |
| 1452 BSEE, Met, ME, ChE, Pet. 5 vacancies. Mid-west chem mfg. | 1469 BSEE, MSEE or ME. Multi-openings, sun belt. | 1487 Agency listings. |
| 1453 Multi-openings with most disciplines represented. Mid-west. | 1470 BSEE product engr. 2 yrs. exper. Upper mid-west. | 1488 thru 1491 Multi-openings. Most disciplines. Most levels. Chem mfg. |
| 1454 Upper mid-west digital design. Engr or physics 3-5 exper. | 1471 BSME Upper mid-west. 2 yrs. design electro-mechanical devices. | 1492 BS, MS & PhD EE & CSc. West coast. |
| 1455 BS Met. 1-3 exper. Mid-west gray iron foundry. | 1472 Major mfg. All types. 3 yr. overseas assignments. | 1493 BSME with interest in EE. Mid-west mfg. |
| 1456 Agency listings. | 1473 BSCE (Sanitary) 4-8 exper. Registered. Mid-west. | 1494 Major mfg, defense div, needs ME, EE and others. Upper mid-west. |
| 1457 BS Cer for fiber glass mfg. Furniture exper helps. | 1474 BS plus engr for propulsion analyst. BSEE avionics. Mid-west. | 1495 Major company has openings for ME, EE and ChE in mid-west. All levels of entry. |
| 1458 Asst. plant engr with BSME, EE. Exper 1-3 helps. | 1475 Professional society. Industrial and academic, ChE predominates. | 1496 BS & MS ME predominate with multi-openings. Major mid-west mfg. |
| 1459 Upper mid-west food processor. Multi-openings. ChE, chem predominates. Always hiring. | 1476 See 1475 | 1497 PhD ChE or polymer/materials with exper in chem and physics of rubbery compositions. |
| 1460 Univ connected res ctr. Multi-openings. Short and long term. Advanced degrees required. | 1477 BSME, Nuc, EE & CE, test and design. East-coast shipbuilder. | 1498 BSCSc with fortran. Eastern mid-west. |
| 1461 Golden company on the eastern slope again has multiple openings. | 1478 BSEngMgt or ME. Exper in industrial apps and mfg. Missouri. | |
| | 1479 BA or BS in liberal arts for sales, industrial products. | |

Job Opportunities (cont.)

1499 BSMet, EE, ME. Entry level positions. Mid-west and others. Major mfr.

1500 More than 20 openings with mid-west mfr. EE & ME predominate.

1501 BSMet, extractive. Sun belt.

1502 Outdated

1503 Outdated

1504 BS, MS & PhD ME, EE & ChE. Varied locations.

1505 BS Mining, open pit. Remote desert location.

1506 BSME with sales, BSCE structural. Bulk material handling mfr. Mid-west.

1507 Agency listing.

1508 BS or MS ME, for R&D and testing. Auto mfr.

1509 See 1460

1510 Entry level, loss prevention. Mid-west.

1521 Entry level, indust engr. Mid-west mfr.

1522 BS Aero or ME. Major company, sun-belt.

1523 Agency listings.

1524 See 1461.

1525 Upper mid-west, physical metallurgist with failure analysis exper to run met lab.

1526 BSME, math or basic science, app engr. Near-west.

1527 5 positions. Applied res, icy water oriented. North America.

1528 BS IE. Systems analysis and project work. Mid-west.

1511 BSME machine tool exper helps. Mid-west.

1512 CE, structural and hydraulic, federal agency. Mid-west.

1513 Outdated

1514 Energy planner, electricity. Mid-west.

1515 BSME 3-5 in packaging. Mid-west.

1516 See 1459.

1517 BS Pet or ME. Drilling. West coast.

1518 Sr project engr. ME. Mid-west food mfr.

1519 2 BSME, registered. 3-5 a/c heating design. Mid-west mfr.

1520 See 1475.

"UMR Engineer" Wins National Honors

The University of Missouri-Rolla student publication, "UMR Engineer," has received two national awards—first place for best layout (single issue) and honorable mention for best single issue (overall).

Published four times a year, the magazine features local and national developments in the engineering field. Students are responsible for all aspects of its content including copy, research, photography, layout—everything but the actual printing.

A total of 27 magazines from engineering schools throughout the country were entered in the competition. Entries were judged by a panel of editors and staff from professional technical magazines.

The awards were presented at a recent national convention of Engineering College Magazines Associated held in Lincoln, Nebr.

"UMR Engineer" staff members attending the convention were: Steve Lay, junior in engineering management, editor; Bryce Dreeszen, sophomore in chemical engineering, associate editor; Don Howell, freshman in electrical

engineering and John Garrett, senior in electrical engineering.

Faculty advisers for the magazine are Dr. Dan Babcock, associate professor of engineering management and Linda Flentje, research aid-Instructional T.V.

Program Available

The future of Missouri and Missourians is the subject of a new color film available at no charge from the University of Missouri for showing before civic clubs, service organizations and other groups concerned with the realities of the next quarter-century.

A 17-minute film, "Missouri Tomorrow," offers assessments by some of the University's leading scholars of the major problems to be dealt with—energy consumption, maintenance of a high standard of living, food production and urban decay, among others.

The film is produced by the University's award-winning cinematographer, David J. McAllister, of University Information Services.

Intent of the film is to stimulate thought and discussion, and help audiences realize that there are serious challenges ahead but that something can be done about them.

Persons interested in borrowing the film should write to University Information Services, 400 Lewis Hall, University of Missouri, Columbia, Mo. 65201, or Phone 314-882-4591.

Alumni Participate...

Two major participants in Black Culture Week were Frank Chapman of Frank Chapman and Company, and Eugene Jackson, president and chairman of the board of the National Black Network, New York, NY. Jackson was speaker at the second annual banquet and fashion show held Saturday, April 16. On Sunday, April 17, the movie and lecture, "Racism in Black Africa," with Frank Chapman and Co., was presented.

Jackson and Chapman are both alumni of UMR. Jackson graduated in 1967 with a B.S. degree in electrical engineering and has held his present

position since 1972. The National Black Network, a division of Unity Broadcasting Network, Inc., is the first nationwide Black-controlled and oriented radio news service. Jackson has also been director of Major Industries Program for the Interracial Council for Business Opportunity, production and project engineer for the Black Economic Union, and industrial engineer with Colgate Palmolive Co. He is on the board of directors of the National Association of Broadcasters, and has served on the boards of the International Television and Radio Society and New York Urban League. He received his master's

degree in business at Columbia University, New York City, in 1971.

Chapman, who received his B.S. degree in history at UMR in December, 1975, is now a graduate student in anthropology in Washington University, with his major work in African Culture. He is the author of numerous articles and papers, including "Science in Africa," and "The End of Ideology Fraud and Praxis," which have appeared in history and political science journals. The Sunday evening program was presented by Chapman and Wale Amusa, and African student at Washington University.

Keramos Wins National Honor

The University of Missouri-Rolla chapter of Keramos, national professional ceramic engineering fraternity, has been named "Outstanding Chapter for 1976-77" by the national organization.

Presentation of the award was made at the 79th annual American Ceramics Society convention April 23-27 in Chicago, Ill. Jeff Stevenson, graduating senior and president of the chapter, accepted the honor for the group.

This is the second time the UMR chapter has won the award, established in 1962. The group was first honored in 1972. There are about 20 chapters nationwide.

Basis for the award is the number and quality of projects undertaken and completed by each chapter during the academic year as well as the number of man-hours spent by each member on the projects.

Members of Keramos at UMR have expended a great deal of effort during the past year in the development of exhibits and displays. These are used to inform various groups about ceramic engineering and its role in relation to students and the general public.

Dr. Charles A. Sorrell, professor of ceramic engineering, is chapter adviser.

This year is the 50th anniversary of the establishment of the ceramic

engineering department at UMR and the 30th anniversary of the installation of Keramos.

Honored guest and banquet speaker on the anniversary occasion was Dr. James I. Mueller, chairman of the department of mining, metallurgy and ceramic engineering at the University of Washington, Seattle. Dr. Mueller, a member of the class of 1949, was presented with the Distinguished Alumni Award.

Dr. Manfred Wuttig, professor of metallurgical engineering at UMR, was awarded honorary membership in Keramos. Further awards were given for outstanding teaching.

Faculty Member Elected

John A. Eilers, professor of engineering management, has been elected to the council of the newly created Central Missouri chapter of the American Society for Public Administration (ASPA). The council serves as an advisory board to the chapter.

ASPA membership includes those who work in the field of public ad-

ministration and educators who provide training in the field. Aim of the organization is to improve administration of public service at all levels of government and in related functional and program areas.

Dr. Eilers says he hopes his new position will promote better com-

munication within the organization between the educators and practitioners. He would like to see the establishment of faculty fellowships at the state, county and local levels and the opportunity for senior public servants to spend one or two semesters on campus as visiting lecturers.

Joe B. Butler and E. W. "Skip" Carlton Honored

The Board of Curators on June 24 approved a request, initiated by members of the civil engineering faculty, to name the Civil Engineering building on the Rolla campus "Butler-Carlton Civil Engineering Hall".

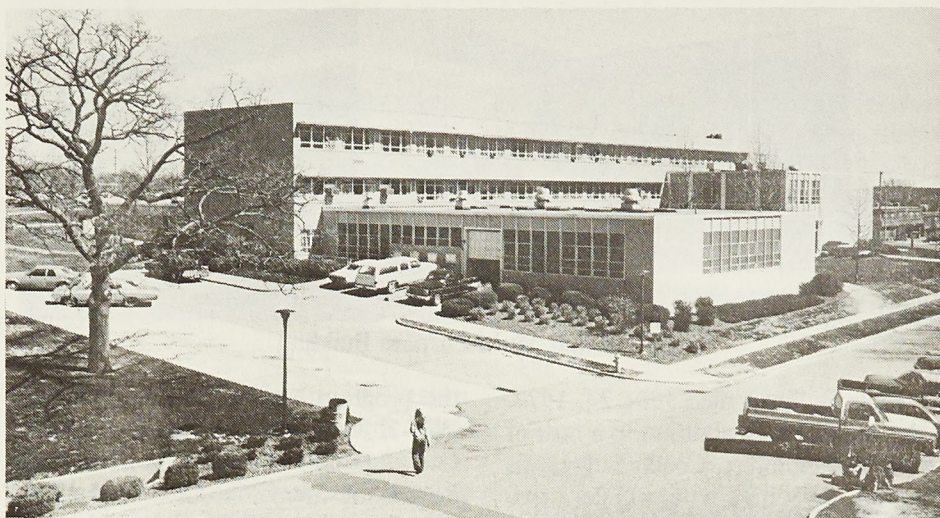
Professor Joe B. Butler, a native of Oklahoma, received a B.S. degree in civil engineering and a degree in education from Oklahoma State University in Stillwater. Following service in the U.S. Engineers during World War I, he joined the faculty at MSM in 1920. He earned his M.S. degree in 1922 and the professional degree of civil engineer in 1924.

After his appointment as department chairman in 1931, Professor Butler was instrumental in updating the curriculum to reflect the changes taking place in civil engineering and he guided the department through the depression, World War II and the dramatic upsurge in enrollment which took place shortly after the war.

Professor Butler made many contributions to the profession in general. He served as supervisor of the South Missouri County and Highway Planning and Mapping Studies beginning in 1934, helped to set up the Engineer-Architect Registration Law in Missouri and helped to establish the Missouri Society of Professional Engineers (MSPE). He was also active in national professional organizations, honor societies and civic groups in Rolla. He served as chairman of the department until his death in 1955.

Professor E. W. Carlton was a native of Colorado. He received B.S. and M.S. degrees in mechanical engineering from Colorado State University in Fort Collins. He joined the faculty at MSM in 1923 and earned his B.S. degree in civil engineering and the professional degree of civil engineer from MSM.

After he succeeded Professor Butler as chairman, the civil engineering department became the largest undergraduate C.E. department in the



Butler-Carlton Civil Engineering Hall

United States and it has remained one of the largest. Professor Carlton worked diligently to obtain the present Civil Engineering Building which was dedicated in 1960, and to get the Ph.D. degree program in civil engineering which was approved shortly before his retirement.

His further contributions to the profession in general included serving as co-founder and twice president of

MSPE, active service as an officer or director of four regional and national organizations and holding membership in several other professional and honorary societies and associations. He was also chairman of Rolla's planning and zoning committee from the time it was established until his death in 1966. At the time of his retirement in 1965, Professor Carlton had been a member of the UMR faculty for 42 years.

Director Honored



Belding McCurdy

The Royal Rosarians of Portland, Oregon dubbed Belding McCurdy, '38, Knight of the Golden Slipper during the famous "City of Roses" Rose Festival. McCurdy, a resident of South Pasadena, Florida, is Eastern Vice President, International Order of the Blue Gavel, a club composed of past commodores of yacht clubs throughout the United States and Canada. The program for the day explains: "The Knighting Ceremony recognizes successful men who have proved their worth as reputable citizens and honorable gentlemen..." While on the west coast, Belding visited another UMR degree holder, the Honorable Dixy Lee Ray, Governor of the State of Washington.

Longtime Coach/Athletic Director Dies



Gale Bullman Multi-Purpose Building

Gale Bullman died June 24, 1977, at the age of 75. In addition to a host of friends and admirers, Coach Bullman is survived by his wife, Gale; two daughters, Cay Rucker, Rolla, and Storm Campbell, Osage Beach; two sons, Howard of Jackson, Miss., and Tom, the Philippines; 12 grandchildren; and his two sisters, Mrs. Robert (Mary) Hall, Lexington Ky., and Mrs. E. E. (Ethel) Schroeder of Charleston, W. Va.

As Rolla Daily News sports editor Bob Yates started his story of June 26, "According to the legend..." Any readers who participated in sports from 1937 until now have memories of "He Gale" and they are memories from which legends can grow.

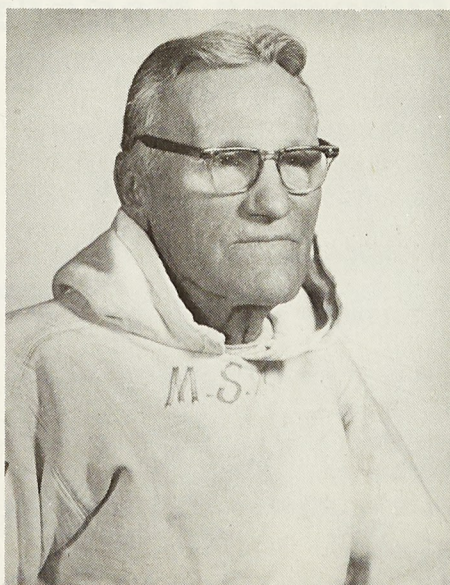
The statistics are impressive enough for legend, MIAA football championships in 1947, 1949 and 1950, with shared honors in 1941 and 1956. A simon pure support program, never enough money for assistants and a schedule which was always tough—that called for a man of unique abilities, and Gale had them. Lawyer turned coach, he was the man for his times.

A Walter Camp All-American, he had a fabulous record as a player at West Virginia Wesleyan. Not only as a football all-American, for he also captained the basketball and baseball teams and was hurdler on the track team. He was assistant coach to Jimmy Conzelman at Washington University while he studied law, and that was the beginning of a lifelong friendship.

Gale began the intramural program at MSM after his arrival in 1937, and

the program earned recognition before WW II when Bullman and James Percy Gill did all the coaching. Robert L. Burnes of the Globe-Democrat closed his tribute this way: "So he coached until his time was up, appreciated and admired by the players who developed under him, admired, respected, and in many cases beloved by friends, alumni and townspeople. His memory will live forever in Rolla."

The Board of Curators of the University of Missouri, acting on the recommendation of the UMR athletic department, campus administration and, with the endorsement of the president of the university, on July 29, 1977, designated the former UMR Multi-Purpose Building as the "Gale Bullman Multi-Purpose Building." This honor reflects the sentiments expressed above.



Gale Bullman

Professor Dies

Richard Oeffner, associate professor of mathematics at UMR died July 15, 1977, in Rolla. He had been a member of the faculty since 1955, and was 57. He is survived by his wife, Inez, one son and two daughters. The family home is at 1000 Lynwood Dr.

Professor Oeffner was long-time advisor to the Independents, since 1956, and a member of Kappa Delta Phi. A familiar figure at all athletic contests, he was on the football chain gang for years. His health had been impaired in recent years but he was in his chair at the end of the court for most basketball games. Through his teaching, his service to athletics and his major commitment to advising, Professor Oeffner served his school and his students in an exemplary way.

Former Staff Member Dies

Claude O. Grimm died July 6, 1977, in Rolla. He would have been 93 on July 11. Mr. Grimm had been in failing health for several months. He is survived by his family, C. James Grimm, R. Dean Grimm, Mrs. T. A. Steele, Geraldine Harr, and Mrs. T. M. Bertch. All of the children attended the Missouri School of Mines and four are graduates. Mr. Grimm was well known to generations of MSM students and his son, Jim, is a professor emeritus of electrical engineering.

UMR Professor To Ohio State

Jacques L. Zakin, a professor of chemical engineering at UMR and a member of the faculty since 1962, has resigned to accept appointment as chairman of the Ohio State University department of chemical engineering. He assumed his new position on July 1. In addition to his duties with the chemical engineering department at UMR, Dr. Zakin also directed the Minority Engineering and Women in Engineering Programs for this campus.

Alumni News

1907

William Crutcher Perkins of Plattsburg, MO, died July 20, 1977. Mr. Perkins was a former employee of Freese and Nichols, Inc., consulting engineers in Ft. Worth, Tx.

1922

The alumni office has been notified of the death of Henry Ernest Diers of South Pasadena, Florida, on July 6, 1977.

1923

James L. Gregg's new home address is 767 John Ringling Blvd., Apt. 3, Sarasota, FL 33577.

1930

Booker Hall Rucker, Jr., of Joplin, MO, died June 2, 1977. He is survived by his wife, Louise, two sons and a daughter.

1931

James E. Stokes, 1804 Cameo Ave., Loveland, CO 80537, died May 24, 1977, at the McKee Medical Center. He retired from the Bureau of Reclamation as South Platte River Project Manager. He was listed in "Who's Who in Engineering" and "Who's Who in the West". Mr. Stokes is survived by his wife, Hazel, and a son, Kenneth, of Denver.

1932

Frank and Kay Zvanut, 1024 Hansford, Tyler, TX 75701, celebrated their 40th wedding anniversary with a three-week trip through Mexico. They have five children and six grandchildren and are enjoying life.

1933

William Koopman, Jr., retired October 31, 1976, from DuPont. He is presently active as an independent production consultant and treasurer for Wilson Co. of Glen Mills, PA. Mr. Koopman and his wife, Virginia, live at 2412 Heather Road West, Wilmington DE 19803.

1934

Herbert A. Hoffman, Division Superintendent of Indian Creek Division, St. Joe Minerals, retired June 1, 1977, completing 31 years and 9 months of service. Immediate retirement plans for Herb and Olga include an ocean cruise to South America. Later, he plans to be involved in surveying and consulting work. Home is 111 North 6th, Desloge, MO 63601.

1940

John J. O'Neill of 2310 Penbrook Fairway, Cordova, TN 38018, is now president of Vertac, Inc. in Memphis.

1941

G. Robert Couch has been elected a vice president of AMAX Inc. by the Company's Board of Directors. He is president of AMAX Speciality Metals Corp., which produces molybdenum, tungsten and other special property metals in mill product forms. His home address is 16 Butternut Place, Stamford, CT 06903.

1942

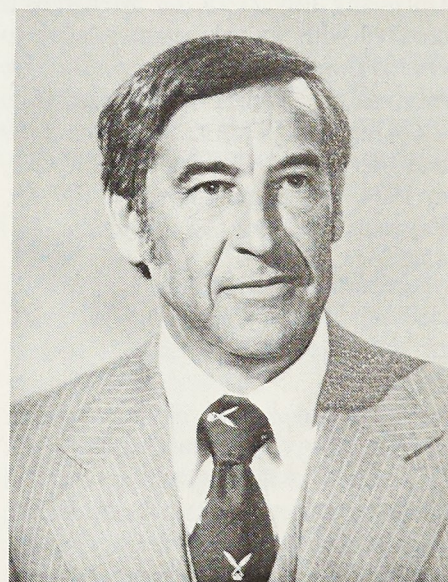
James A. Cookston, 2 Country Club, Mexico, MO 65265, has been elected a member of the board of directors of the A. P. Green Refractories Co. He has been with the Green Co. since 1955.

1943

Carl J. Weis of 1536 Blue Bell, Rock Hill, MO 63119, is president of Bank Bldg. & Equip. Corp. in St. Louis.

Ewin H. Barnett, a research associate (statistics) for Corning Glass Works, has been elected an American Society for Quality Control (ASQC) Fellow "for outstanding efforts for the profession and the Society, and for his contributions to the theory and practice of quality control." Mr. Barnett's home address is 761 Brookside Circle, Elmira, NY 14903.

1946



Burnette Henry, '46

Burnette Henry has been elected president of Arcata Redwood Co. and vice president of Arcata National by the Board of Directors. He has been with Arcata National since 1974. Henry and his wife, Jeanne, are in the process of moving from Kingsport, TN, where he had been vice president, operations of the Arcata Book Group, to Calif.

1947

Cecil C. Bailie, 305 W. Reed, Benton, IL 62812, is now vice president-engineering for Old Ben Coal Co. (SOHIO).

Alumni News

1947 Cont.

Dr. Charles L. McKinnis of the Owens-Corning Fiberglas Corporation Technical Center presented a research paper at the Eleventh International Glass Congress held in Prague, Czechoslovakia, July 4-8. His technical presentation was entitled, "Defects In and Stress Corrosion of E-Glass Fiber and Their Combined Effects on Tensile Strength." He also presented a research paper on "Stress Corrosion Mechanisms In E-Glass Fiber" at the International Symposium on Fracture Mechanics of Ceramics held at Pennsylvania State University July 27-29. Dr. McKinnis is credited with six inventions relative to Owens-Corning Fiberglas processes. He received the Frank Forest Award from the American Ceramic Society in 1959 and was named a Fellow of the Society in 1974. His home address is 109 Mt. Parnasus Dr., Box 46, Granville, OH 43023.

1949

Kermit G. Rowley was elected president of JRK Oil Co., Inc. in October 1976. JRK Oil is a drilling and production company presently operating in Texas, Utah and Montana. Mr. Rowley's home address is 8490 Katy Freeway, Houston TX 77024.

Elmer E. Jackson, died unexpectedly May 30, 1977, of a heart attack. He had lived at 3213 Messanie St., St. Joseph, MO 64501, and was an employee of the St. Joseph Power and Light Company. Survivors include his wife, Mrs. Ann M. Jackson, two sons, Paul and John and two daughters, Susan and Janet.

Julius L. Sarzin has moved to 300 Edwards St., Roslyn Heights, NY 11477. Mr. Sarzin is head of the Engineering Section, Sperry Systems Management, Great Neck.

1950

Stuart S. Brown has been promoted to assistant insurance manager for Consolidation Coal Company. He and his wife, Lila, live at 1292 Arrowood Dr., Pittsburgh, PA 15243.

John Sakonyi, 644 Exchange Ave., Calumet City, IL 60409, is working on a nuclear power station for Commonwealth Edison at Braidwood. He is an electrical superintendent for Gust K. Newberg Construction Co. in Chicago.

D. Wallace Breuer, 5539 Oakshire Circle, Kettering, OH 45440, is head of the Department of Aeronautics and Astronautics, Air Force Institute of Technology, Wright-Patterson AFB, Ohio. This department was formerly the departments of Mechanics and Aeromechanics which were merged 28 March 1977.

Edwin A. Davidson's new address is 804 San Francisco Tower, 2501 Grand Ave., Kansas City, MO 64108. He is vice president of M. J. Harden Associates, Inc., photogrammetric engineers.

1951

J. Bryden Plater, RD 3, Robinson, IL 62454, suffered a second heart attack January 2, 1977. He had open heart surgery with two by-passes February 8, and is recovering slowly. I "do not miss the prior heavy activities," he reports.

E. E. and Dickie Dunn have moved to 13118 Carla Way, Cypress TX 77429. Mr. Dunn is vice president and general manager of H. K. Ferguson Co. in Houston.

During the past five months Elmer Packheiser has been working at Westinghouse Aerospace Division in Baltimore, MD, on the AWACS Program. He and Doris live at 309 S. Cherry Grove Ave., Annapolis, MD 21401.

John R. "Jack" Brady has been named vice president of Northern Minerals Company, a newly formed subsidiary of Northern Natural Gas Co. He has been with Northern since 1958. His new responsibilities include mining and exploration of coal. Jack and his wife, Dorothy, have five children. The family lives at 1223 N. 95th St., Omaha, NE 68114.



Edward MacMasters, '51

Edward MacMasters, 432 Luhmann Dr., New Milford, NJ 07646, has been named plant superintendent for the Specialty Fastner Division plant of Rexnord in Maywood, NJ. He will be directly responsible for all projection activities and will oversee building and ground maintenance of the plant facilities. He joined Rexnord in 1966 as a design engineer.

1952

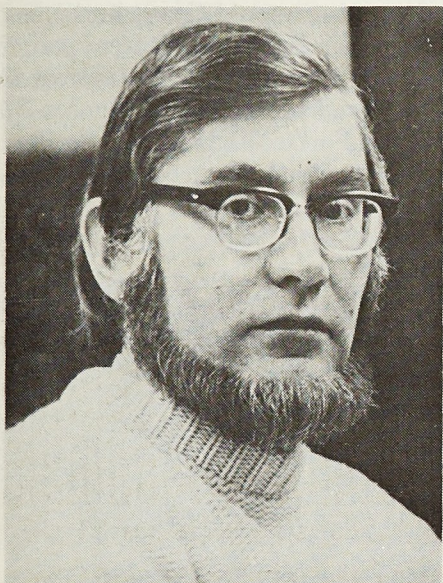
Jack H. Thompson and his immediate family, wife Nancy, daughter Beth, and son Mark were killed July 25, 1977, in the crash of a single engine plane. The family was on the way to a float of the Salmon river and the crash happened at a wilderness airstrip. The pilot also was killed. Jack was vice president of Bodine Aluminum and Mark had finished his freshman year at UMR. Survivors include Jack's father and sister and Nancy's parents and sister.

Alumni News

1952 Cont.

Norbert F. Neumann, Mistletoe Lane, Rye, NY has been appointed Vice President Sales, Kennecott Sales Corp. Neumann has been with Kennecott since 1965 and has held positions of increasing responsibility since then. He holds the doctorate in metallurgy from UMR, granted in 1955.

1957



Dr. Larry Oppliger, '57

Larry Oppliger, 1214 Boswell Circle, Kalamazoo, MI 49007, has been reappointed chairman of physics at Western Michigan University. He has served as chairman since 1974. Professor Oppliger holds the masters and doctorate from the University of Wisconsin.

1959

Colonel Daniel D. Hall was awarded the Legion of Merit upon his retirement from the Army Corps of Engineers on May 31, 1977. Hall was recognized for "outstanding meritorious service" during his tour in the Corps' Southeastern regional office. The citation on the award commended Colonel Hall for his "dedication, managerial ability, and leadership,...Through his personal in-



Colonel Daniel D. Hall, '59

itiative and diplomacy, many problems were resolved and viable solutions developed..." Hall and his wife, Rebecca, have two children, Rebecca Elizabeth and Daniel D., Jr. Their home address is 5001 Church St., Ft. Davis, AL 36031.

1961

Morris T. Worley has been named general manager of new mines for Kerr-McGee Nuclear Corp. He will coordinate the design and construction of new uranium mines with current operations and planning. His first assignment will be development of the Rio Puerco Mine in central New Mexico. Home for Mr. Worley and his wife, Sue, is 11625 Willoway, Oklahoma City, OK 73132.



Farouk El Baz, '61

Dr. Farouk El-Baz recently returned from a trip into the Western Desert of Egypt. The purpose of the journey was to field check Apollo-Soyuz photographs and astronaut observations. Results include a classification of soil types, establishment of prevailing and subsidiary wind directions, and a confirmation of the direction of shifting sands and resulting landforms. The Apollo-Soyuz data have helped locate areas in danger of being inundated by migrating dunes, as well as regions that are reclaimable from desert. Dr. El-Baz lives at 2786 N. Wakefield St., Arlington, VA 22207.

Bennett L. Atwater, 15672 Silverlake Court, Chesterfield, MO 63017, has been named manager of instrument engineering for Arthur G. McKee & Co.

1962

Robert R. Powers of 1633 Prestonpark Lane, St. Louis MO 63141, has been named manager of engineering for Arthur G. McKee & Co.

Donale E. Wuerz retired from the Army Corps of Engineers military service after 22 years. He is now city engineer, Greenwood Village City (Denver). "Tis a privilege (and joy) to live in Colorado," says Mr. Wuerz of 1050 Kingston St., Aurora, CO 80010.

Doyne L. Chartrau has been promoted to manufacturing superintendent and transferred to the GM Central Foundry in Defiance. His address is 704 Carpenter Road, Defiance, OH 43512.

Alvin N. (Pete) Hainline, 304 Chapel Lane, Midland, MI 48640, has been appointed Manager of Government Relations and Community Affairs for Dow Corning Corp. He will direct all State government activity, and assist in Midland in the coordination of Federal Government activity. He will represent the company in key community groups and administer the Dow Corning contributions budget.

Alumni News

1962 Cont.

Robert Dean Moss has returned from a year in Saudi Arabia. Dean is now working as chief of engineering operations branch at the Army Combat Development Experimentation Command with labs at Ft. Hunter Liggett. His home address is 19115 Creekside Place, Salinas, CA 93901.

Edward E. Dischner, former chief of the recreation section of the Kansas City District, Corps of Engineers, has resigned his position and embarked on a "dream" project. He will tour the nation's parks to "find out what people really think about these facilities" and will keep a journal of his experiences as a basis for a book. He plans to work part-time to help cover traveling expenses. He will keep in touch with his friends via P.O. Box 15174, Kansas City, MO 64106.

1963

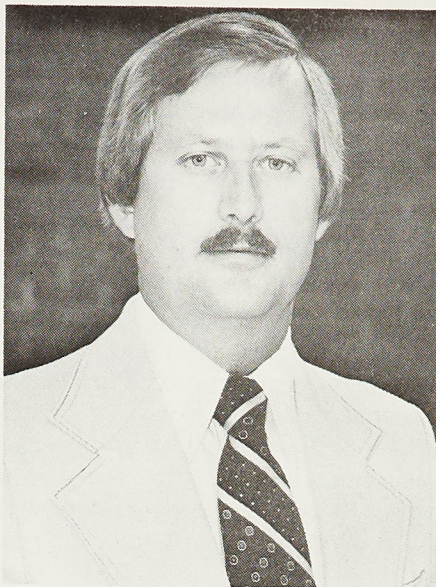
Douglas K. Pinner is president of the Jessup Steel Company in Washington, PA 15301.

Pierre L. Garrigue has moved to Los Laureles 337, San Isidro, Lima 27, Peru. He is general manager of Gasayo S.A.

1964

Ralph M. Cassell of 4174 Miletus Dr., Florissant, MO 63033, has been promoted to director of metallurgical research and development at Laclede Steel.

Donald O. Reuling has been named director of estimating and engineering by Murphy Company, Mechanical Contractors and Engineers. Reuling, who has been with the Murphy Company since 1971, has his BSME and MSEngMgt from UMR. He is a Registered Professional Engineer and a member of the Engineers Club of St. Louis, the American Institute of Plant Engineers and the MSM-UMR Alumni Association. His home address is 46 Raintree Court, Fenton, MO 63026.



Donald O. Reuling, '64

Robert L. Stuart is now Program Estimator, Department of Army-Facilities Engineers, Ft. Greely, Alaska. He and his wife, Sally, receive their mail at P.O. Box 154, Delta Junction, AK 99737.

1965

Fred, Eleanor, Jim, Gail, and Sandy Smith have moved to 2164 Tabor Place, Lakewood, CO 80215. Fred is chief geologist for Marathon Oil in Denver.



David Woerner, '65

David Woerner, 6300 N. Woodland, Kansas City, MO 64118, has been named Supervisor of Technical Services for Armco Steel Corporation's Union Wire Rope. He joined Armco in 1966 as an associate product metallurgist. Woerner is a member of the American Petroleum Institute and a registered professional engineer.

Terry Towers is now project manager of the coal gasification unit at the Energy Research Center of Grand Forks. He is employed by Stearns-Roger, Inc. of Denver. The new home address for Terry and Janice is 1212 Belmont Rd., Grand Forks, ND 58201.

1966



Dr. Franklin D. Schowengert, '66

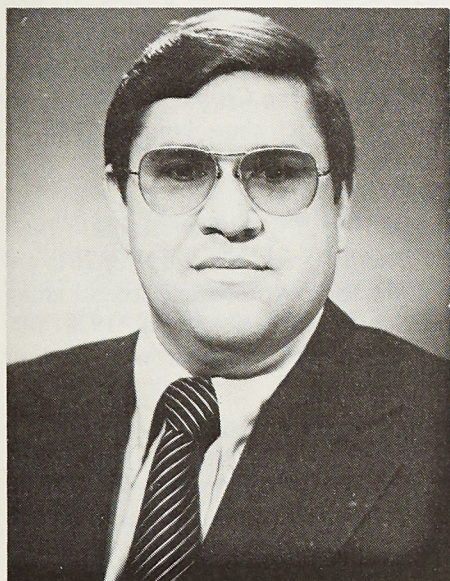
Dr. Franklin D. Schowengert has been appointed Head of the Physics Department at the Colorado School of Mines. He has been a member of the CSM faculty since 1973. Dr. Schowengert and his wife, Ellen, and their two children, Anna, 6, and John Stephen, 1, live at 2819 Sunset Drive, Golden CO 80401.

Alumni News

1966 Cont.

Roger F. Verslues, civil engineer, has joined with Richard J. Schuetz, architect, AIA, to form the architectural-engineering planning firm of Schuetz-Verslues, Inc. Verslues has been the principal in R. F. Verslues and Associates for the past five years. The home address for Mr. Verslues and his family is 816 Nelson, Jefferson City, MO 65101.

Rohn D. Abbott, vice president of Shannon & Wilson, Inc., is also manager of their Fairbanks office. He transferred to Fairbanks three years ago as manager of Arctic Alaska Testing Labs, a division of Shannon & Wilson for testing of soils, concrete, asphalt and coal. In 1975, he was named head on the Fairbanks Drilling Company. His mailing address is P.O. Box 843, Fairbanks, AK 99707.



R. Lee Tritschler, '66

R. Lee Tritschler has been appointed Laclede Steel Company's sales representative for Industrial Products in Northern Ohio. Lee and his family live at 6945 Roland, St. Louis, MO 63121.

1967

Doyle and Suzanne Powell of 19362 Shady Harbor Circle, Huntington Beach, CA 92648, report that Doyle has a new position as construction manager for Brutoco Engineering and Construction Co in Covina.

T. Michael McMillen is working for Shive-Hattery and Associates, consulting engineers. He is in charge of their recently formed soils section. Mike and his wife, Marilyn, live at 1022 Estron, Iowa City, IA 52240.

Ron and Helen Davis of 33 Windsong Lane, Friendswood, TX 77546, are celebrating the birth of their first child, a beautiful daughter, Ronell Leann. She was born November 11, 1976. Ron and Helen are sure she is worth the 9½ year wait. Ron is an aero-engineer with NASA/Johnson Space Center.

1968

Stephen A. Wright, 35708 SE 49th St., Fall City, WA 98024, is supervisor, Civil Engineering for the U. S. Army Corps of Engineers in Seattle.

Dewayne Mabry of 1333 Kimberland, Jackson, MO 63755, is now working as field engineer for Penzel Construction Co.

David Rosenbaum, Lt. in the Civil Engr. Corps, USN, has a new mailing address: c/o R. Ford, 13501 E. 35th St., Independence, MO 64055.

Edwin E. Sievers, 3804 Tommy Armour, Billings, MT 59102, is vice president-Mine Engineering for Intra Search, Inc. He was formerly with Consolidation Coal.

The new home address for Jack L. Chadwick is 20939 Anza Avenue, Apt. 369, Torrance, CA 90503. Jack is a design engineer and member of the technical staff III of Hughes Helicopters in Culver City, also a new job.

1969

The alumni office has been notified of the death of James Paul Powers of 1217 Maple St., Bethlehem, PA 18018, on June 25, 1977. He is survived by his wife and two daughters.

Theodore W. Holland has been selected as the Geothermal Specialist on the Energy & Minerals Staff, Denver Service Center, U.S. Bureau of Land Management—a promotion for him. He was formerly a mineral specialist with BLM's Wyoming State Office. In his new position, Holland will be coordinating BLM's geothermal leasing program and will also be the contact point on the staff for solar and other unconventional energy sources. His home address is 28228 Fireweed Dr., Evergreen, CO 80439.

J. S. Eason, 600 Cherry Court, Suisun, CA 94585, is now resident construction engineer for Anheuser-Busch, Inc.

James Dale Payne sends greetings to all his former classmates. He was recently transferred from Wichita Falls, TX, to Salem, IL, where he is a production engineer for Texaco. Jim and Mary Anne and their son, Jared Ryan, age 2, live at 131 Fielder Dr., Salem, IL 62881.

Jerry L. Johnson, K9IHM, would like to let his former classmates and other amateur radio operators know that he passed the FCC exam for his advance class license on May 12, 1977, after holding a technician class license for 15 years. Jerry's equipment includes the Heathkit SB-303, SB-401 and the SB-200. He is using inverted vee's, but hopes to have a Mosley TA-32 for 10, 15 and 20 meters and remain using inverted vee's for 40 and 80 meters.

Jerry has worked a lot of DX since May, including Kingman Reef, KP6BD. He would like to work some of his Rolla friends, especially Stan Cary. He would also appreciate hearing from Jack Leone. Jerry lives at 7011 Blake Dr., Ft. Wayne, IN 46804. He is a project engineer for Magnavox.

Michael and Betty Knenlein of 8003 Sandi Court, Indianapolis, IN 46260, became parents of a second son, Thomas Michael, on July 1, 1977. Mike is a district representative for Nalco Chemical.

1969 Cont.

Paul F. Cretin has been named University of Missouri business specialist for the Show-Me extension area. He will be headquartered at the Extension Center for Pettis County in Sedalia and will provide University programs and management assistance to businesses in the four-county area and for Carroll, Chariton and Saline counties. His home address is 2233A First St. Terr., Sedalia, MO 65301.

1970

Roger Allen LaBoube, 1305 Ontario Circle, Ames, IA 50010, received his PhD in civil engineering from UMR in May. The title of his dissertation is "Strength of Cold-Formed Steel Beam Webs in Bending, Shear and Combination of Bending and Shear." Dr. LaBoube is currently an assistant professor at Iowa State University.

Max Michael Ethridge received his PhD from Purdue on May 14, 1977. Dr. Ethridge is a lieutenant commander in the commissioned corps of the National Oceanic and Atmospheric Administration. He has been assigned to serve as executive officer aboard the NOAA ship "Whiting."

Larry and Kathy Onstott, 319 Linda Lane, O'Fallon, MO 63366, announce the birth of their first child, a son, Barry Houston Onstott, born June 27, 1977. He weighed 9 lbs., 4 oz. Mr. Onstott is an electrical engineer with Continental Telephone.

Timothy and Christine Kwiecinski are now living at 6 Briggs St., Lakewood, NY 14750. Tim recently accepted a position as metallurgist with Cummins Engine Company.

As of August 1, 1977, James P. and Linda S. Thomas are living at 3800 N. Fairfax Dr., No. 901, Arlington, VA 22203.

B. Darryl Orr, PE, 402 West Stoddard, Dexter, MO, was named by the MSPE as 1977 Young Engineer of the Year in Missouri. Orr, president of Trotter Associates, Consulting Engineers, Dexter, was one of eight candidates nominated for the annual award. He was awarded Outstanding Young Engineer of the Year earlier by the Southeast Chapter of MSPE. Orr holds BS ('70) and MS ('71) degrees in civil engineering. He is active in the Chamber of Commerce, Park Board, and Zoning Commission, and is a representative to the Bootheel Regional Planning Commission. His professional affiliations in addition to the Missouri and National Societies of Professional Engineers include the American Water Works Association, Water Pollution Control Federation, Missouri Water Pollution Control Association, Missouri Water and Sewage Conference.

Curtis B. Abshier has a new home at 803 Center Avenue, Apt. 3, Pittsburgh, PA 15215, and a new job as research geophysicist for Gulf Research and Development Co.

Hoyt Deleach Ussery III received a B.S.E. Degree from NMSU on May 6, 1977. He is currently employed as an assistant photographer in NMSU's Public Relations Department. He and his wife, Janet, live at Eastern Village Trailer Court, Box 66, Kirksville, MO 63501.

Larry H. Carpenter, 553 Kemilworth, Glen Ellyn, IL 60137, has been named engineering staff specialist, planning and economics, for Standard Oil Company (Indiana). Larry and his wife, Melissa, have two children.

1971

Charles E. Powell has accepted a position as engineer for S. A. Nuccitelli, Inc. in Springfield. His new mailing address is P.O. Box 142, Nixa, MO 65714.

Allen and Donna Seabaugh celebrated St. Pat's 1977 with the birth of their beautiful daughter, Kristen Michelle. Her brother, Chad is very excited. (So are Mom and Dad.) The family lives at 1235 Southern Parkway, Clarksville, TN 37040. Al is a mechanical engineer at the TVA Cumberland Steam Plant.

John H. Atkinson III, was recently promoted to Army Lt. Col. while a student at the U. S. Army Command and General Staff College, Ft. Leavenworth, KS. The home address for Col. Atkinson and his wife, Mary, is 502 E. Second St., Fulton, MO 65251.

Michael Kelly, 12213 E. 49th, Independence, MO 64055, was recently promoted to project engineer-electrical systems with Black and Veatch. He will be working on power plants for Kansas City Power & Light and Iowa-Illinois Gas and Electric Co. He has been with Black & Veatch since January 1972.

Ronald and Margie Rains, 1408 Sunswept, Union City, TN 38261, announce the birth of their second child, Marnie Beth, born June 22, 1977. Mr. Rains is a civil engineer with Nichols Engineering.

Murvel M. Little, Jr. has accented a position as nuclear engineer for General Electric. His home address is 418 Fieldcrest Dr., San Jose, CA 95123.

1972

Don Stockstill, P.O. Box 257, Ozark, MO 65721, is teaching math and science in the Seneca School District's junior high school.

Major James G. Habermel is a member of the Air Force industry team selected to receive the 1976 Robert J. Collier Trophy for successfully producing and demonstrating the B-1 Strategic Bomber. He and his wife, Reba, live at 6700 Alter Road, Dayton, OH 45424.

Alumni News

1972 Cont.

Larry R. Maddux has joined Monterey Coal Co., Illinois Div., as a senior project engineer (coal preparation). Larry was employed by Quarts Mining Co. prior to joining Monterey. His previous experience includes preparation plant superintendent, plant foreman for North American Coal, and coal preparation engineer. Larry and his wife, Patricia, and their daughter, Amy Rachelle, 17 months, live at 757 Chiles St., Carlinville, IL 62626.

Stephen J. Boyd and the former Carolyn Cook were married March 19, 1977. Jeff Boyd served as best man; Tammy and Angie, Carolyn's daughters, were the bride's maids; Ron Faust, '72, and Charlie Fronick, '73, were the ushers. Lee Fronick, '72, kept the groom, best man, and ushers out of trouble. Steve, Carolyn, Tammy and Angie now reside at 805 Lime Ave., Mt. Vernon, IL 62864. Steve is secretary and chairman of the board of Boyd Brothers, Inc.

Randall and Mary Brannan have moved to Box 73, Star Route, Foster WV 25081. Randy is president of Jupiter Mining Corp. in Chapmanville.

1973

Rex and Lynda Carnes, Box 166, Sandia Park, NM 87047, are proud to announce the birth of their son, Benjamin Logan, born June 29. Mr. Carnes is with the CIV Laser Corp. in Albuquerque.

Frank M. Fulkerson has been named Resident Engineer for the Army Corps of Engineers at Jefferson City. He will act as a liaison between the Corps and the Missouri State Gov't. relative to ongoing Corps activities and responsibilities in water resources planning and development as well as carry on the regular mission of the local office. Frank and his wife, Elizabeth, and their two children, Frank III and Christine, live at 1416 Fairgrounds Road, Jefferson City, MO 65101.

Don Schricker and family are getting established at Stevens Lane, RD 1, Vincentown, NJ 08088, after moving coast to coast. Don is a senior member of the engineering staff of RCA's Government and Commercial System Division. He is currently working on the "AEGIS" program for the U.S. Navy—Project Office, Ship Intergration.

Lynne and Bill Puetz are happy to announce the birth of their second daughter, Katherine Lynne, born July 14, 1977. The family lives at 605 S. Kirkwood Rd., No. C, Kirkwood, MO 63122. Bill is a loss prevention engineer for Factory Mutual. Lynne is a hydraulic engineer for the U.S. Dept. of the Army.

Wuu Hao and his wife, Emily, have a new home address: 3305 Sherwood Road, Easton, PA 18042. Mr. Hao is a mechanical engineer for S. I. Handling Systems, Inc.

Frank C. Degel is working as director of engineering for Custom Electronics in Chatsworth, CA. His new home address is 634 Comet Ave., Simi Valley, CA 93065.

Gary R. Henderson is a Lt(jg) in the Civil Engineering Corps, USNR. He is currently serving as engineering officer with the NMCB-74, S-3B. His mailing address is FPO New York, NY 09501.

Alexis C. Swoboda has a new job with Diamond Shamrock Oil Co. in Amarillo, TX. He is moving to Amarillo this month and promised to send his new address as soon as he finds a place to live.

1974

Lindell R. Hurst, Jr., recently joined Bethlehem Steel as a research engineer. He is working in the area of process control. His new address is 826 Ward St., Apt. 3, Allentown, PA 18103.

1975

Michael R. Warfel is now Hydrogeologist for Geraghty & Miller, Inc. of Champaign, IL. His new home address is 1305 Silver Street, Apt. 1, Urbana, IL 61801.

Richard E. Auer, 4922 Eichelberger, St. Louis, MO 63109, received a MS in Statistics from Iowa State Univ. this past May.

Allen B. Agnew—BS, Indiana University, 1973; MS, UMR, 1975; Doctor of Engineering forthcoming from UMR—and Joyce E. Agnew—BS, UMR, 1976, have both accepted jobs with the Federal Government in Washington, D.C. Allen will be working as an Environmental Research Analyst in Remote Sensing, while Joyce will work as a Computer Specialist. At UMR, Allen was Station Manager and Advisor for KMFA Radio station and Joyce, a member of Phi Kappa Phi honorary, graduated with a perfect 4.0 gpa. They will reside at 11843 Shire Court, Apt. 21A, Reston, Virginia 22091.



K. Heisserer, '75

Karl M. Heisserer, 3120 South 27th, LaCrosse, WI 54601, has joined the Trane Company's corporate headquarters staff in LaCrosse as a sales engineer.

Alumni News

1976

Gregory G. Williams, R 2, Box 306S, Sedalia, MO 65301, has been named Southwestern Bell Telephone's chief deskman in Sedalia. He is in charge of the office that receives customer repair calls and dispatches repairmen to clear the trouble.

Donald R. Dudley and Janice Marie Harlan were married May 14, 1977. Their address of record 114 Gene Dr., Rolla, MO 65401. Don is employed as an assistant engineer for Gross Engr. of St. Louis.

Lt. William K. Miehle, USAF, has been assigned as a project engineer to the Warner Robins Air Logistics Center. His position is in the area of corrosion protection and prevention. Lt. Miehle's mailing address is PSC Box 2596, Robins AFB, GA 31098.

Bill Ahal is a civil engineer for Ahal Contracting Co. in Bridgeton. He has a new home address: 14644 Rialto Dr., Apt. 203, Chesterfield, MO 63017.

Art Tinnemeyer has a new home address: 423 Lansing Dr., No. 69, Bakersfield, CA 93309. Art is an engineer for Atlantic Richfield.

1977

Minh Huong T. Nguyen, 3945 Roanoke Rd., Kansas City, MO is working for CHEMAGRO as a project engineer. He has applied for membership in AICHE.

Jimmie D. Clifford and Mary Margaret Strickfaden were married May 28, 1977, in California, Mo. They are making their home at 3601 Canterbury Court, Apt. 2, Waterloo, IA 50702. Mr. Clifford is a project engineer for Deer & Co.

Frank Allen III, of 3000 Murworth No. 903, Houston, TX 77025, is a data processing analyst for Shell Oil.

ALUMNI ANNUAL FUND AUGUST 1

1976
\$70,827.20
3425 DONORS
CENTURY CLUB
265 MEMBERS

1977
\$131,087.32
3572 DONORS
CENTURY CLUB
336 MEMBERS

Upcoming Meetings

DETROIT SECTION
Nankin Mills
August 21

ARIZONA SECTION
Phoenix
September 9

NORTHWEST SECTION
Seattle
September 10

BARTLESVILLE SECTION B-B-Q
September 17

ALUMNI ALLIANCE
September 24

AIME-SPE
Petroleum Club—Denver
October 11

ST. LOUIS ROLLA NIGHT
October 13

HOMECOMING
Rolla
October 14-15

ANNUAL BOARD MEETING
October 14

**ASSOCIATION ANNUAL
MEETING**
October 15

ARK-LA-TEX
November 5

CAPE GIRARDEAU
November 12

FLORIDA GOLD COAST
Coral Gables
November 19

NEW ORLEANS
January 28-29

**ALUMNI-STUDENT-FACULTY
CONFERENCE**
April 13-14

SEMI-ANNUAL BOARD MEETING
April 15

COMMENCEMENT
May 14

**BARTLESVILLE OKLAHOMA
SECTION**
Lunch at the "Y" Every Third
Friday Of Each Month

ROCKY MOUNTAIN SECTION
Lunch at the Petroleum Club the
First Tuesday of Each Month

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 Awards Hans Schmoldt
 Commencement
 Alumni-Student-Faculty Conference Ed Werner
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2171500

HOMECOMING—OCTOBER 14-15

Reunion Years: 1927 and before, 1932, 1937, 1942, 1947, 1952, 1957, 1962, 1967, 1972

1977 ANNUAL ALUMNI FUND CONTRIBUTION

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NEWS FOR THE MSM ALUMNUS

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FROM
NAME: _____ CLASS _____
SPOUSE'S NAME _____ PLEASE SEND _____ MINER DECALS _____
STREET _____ ☐ NEW
CITY _____ STATE _____ ZIP _____
TITLE _____ ☐ NEW
EMPLOYMENT _____ ☐ NEW
STREET _____ ☐ NEW
CITY _____ STATE _____ ZIP _____

ANNUAL ALUMNI FUND CONTRIBUTIONS ARE TAX DEDUCTIBLE
CHECKS PAYABLE TO MSM-UMR ALUMNI ASSOCIATION

ENCLOSED: ☐ \$100.00 ☐ \$250.00 ☐ \$500.00 ☐ \$

DONORS OF \$100.00 OR MORE QUALIFY FOR THE CENTURY CLUB

☐ \$10.00 ☐ \$15.00 ☐ \$20.00 ☐ \$25.00 ☐ \$50.00

☐ COMPANY MATCHING GIFT
FORM ATTACHED

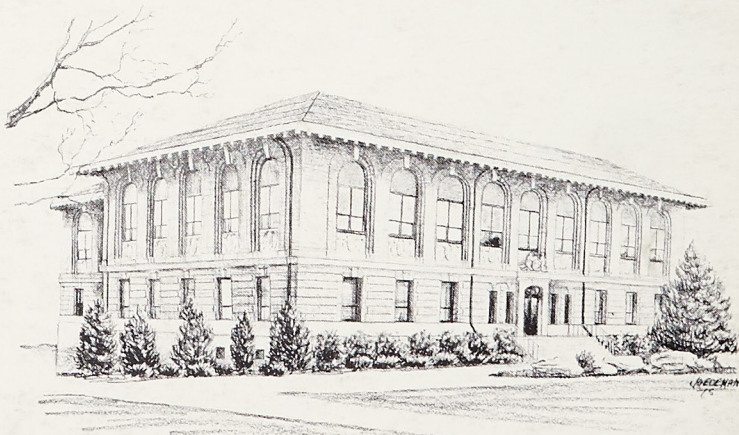
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THE MSM-UMR ALUMNI ASSOCIATION

SUPPORTS:

Commencement
Alumni-Student-Faculty Conference
Libraries
Scholarships
Faculty Awards
Homecoming
Alumni Directory
Area Meetings
Class Reunions
MSM ALUMNUS
Special Projects
Alumni Awards
Newsletters
Grants-in-Aid
Alumni Records
Educational Assistants
Student Awards

(Gifts Are Tax Deductible)



— PARKER HALL, UMR

1977 ANNUAL ALUMNI FUND